

APPENDIX 1

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

PATENT NO. : 7,152,379 B2

Page 1 of 1

APPLICATION NO.: 09/839,078

ISSUE DATE : December 26, 2006

INVENTOR(S) : Hai LIN, Xufeng XU, Ping Sheng ZHANG and Hai Ping CAO

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

The following reference should be appended to the list of "U.S. Patent Documents" on the issued patent as References Cited:

6,182,413 B1 7/1999 Magnusson

MAILING ADDRESS OF SENDER (Please do not use customer number below):

Albert Wai-Kit Chan
World Plaza, Suite 604, 141-07 20th Avenue
Whitestone, NY 11357

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: **Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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APPENDIX 2

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EXAMINER: Yvonne Michele Horton
ART UNIT: 3635

FAX NO. : (703) 872-9327

FROM : ALBERT WAI-KIT CHAN

DOCKET : Ping Sheng ZHANG and Hai Ping CAO, **TWO-PLY
FLOORING HAVING A CROSS-GRAIN BOTTOM
PLY**, U.S. Serial No. 09/839,078, Filed April 20, 2001,
claiming priority of Chinese Patent Application No.
00254152.1, filed October 8, 2000 - OUR DKT. #746

TOTAL NUMBER OF PAGES, INCLUDING COVER SHEET: 29

DATE : February 8, 2005

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Message

**AMENDMENT IN RESPONSE TO SEPTEMBER 8, 2004 OFFICE ACTION,
PETITION FOR TWO-MONTH EXTENSION OF TIME, REQUEST FOR
CONTINUED EXAMINATION, SUBMISSION OF CHANGE OF
CORRESPONDENCE ADDRESS FORM TO ASSOCIATE THE ABOVE-
IDENTIFIED APPLICATION WITH CUSTOMER NUMBER, REQUEST FOR
CORRECTION OF ATTORNEY DOCKET NO., AND INFORMATION
DISCLOSURE STATEMENT**

THE INFORMATION CONTAINED IN THIS FACSIMILE TRANSMISSION IS INTENDED SOLELY FOR THE PERSONAL AND CONFIDENTIAL USE OF THE DESIGNATED RECIPIENT(S) NAMED ABOVE. THIS TRANSMISSION MAY CONTAIN INFORMATION THAT IS CONFIDENTIAL UNDER THE CLIENT AND ATTORNEY RELATIONSHIP. IF THE READER OF THIS MESSAGE IS NOT A DESIGNATED RECIPIENT OR AN AGENT RESPONSIBLE FOR DELIVERING IT TO A DESIGNATED RECIPIENT, YOU ARE HEREBY NOTIFIED THAT YOU HAVE RECEIVED THIS DOCUMENT IN ERROR AND THAT ANY REVIEW, DISTRIBUTION, OR COPYING OF THIS MESSAGE IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS COMMUNICATION IN ERROR, OR IF UPON READING THIS DOCUMENT YOU HAVE REASON TO BELIEVE THAT THE DOCUMENT WAS INADVERTENTLY SENT TO YOU, PLEASE NOTIFY US IMMEDIATELY BY COLLECT TELEPHONE CALL AND RETURN THE ORIGINAL MESSAGE TO US BY MAIL. THANK YOU.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s) : Ping Sheng ZHANG and Hai Ping CAO
U.S. Serial No. : 09/839,078
Filing Date : April 20, 2001, claiming priority
Chinese Patent Application No.
00254152.1, filed October 8, 2000
Examiner : Yvonne Michele Horton; Art Unit: 3635
For : TWO-PLY FLOORING HAVING A CROSS-GRAIN
BOTTOM PLY

Albert Wai-Kit Chan
World Plaza, Suite 604
141-07 20th Avenue
Whitestone, NY 11357

February 8, 2005

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir/Madam:

**AMENDMENT IN RESPONSE TO SEPTEMBER 8, 2004 OFFICE ACTION,
PETITION FOR TWO-MONTH EXTENSION OF TIME, REQUEST FOR
CONTINUED EXAMINATION, SUBMISSION OF CHANGE OF CORRESPONDENCE
ADDRESS FORM TO ASSOCIATE THE ABOVE-IDENTIFIED APPLICATION
WITH CUSTOMER NUMBER, REQUEST FOR CORRECTION OF ATTORNEY
DOCKET NO., AND INFORMATION DISCLOSURE STATEMENT**

This Amendment is submitted in response to the September 8, 2004 Office Action issued by the United States Patent and Trademark Office (USPTO) in connection with the above-identified application. A response to the September 8, 2004 Office Action was originally due December 8, 2004. Applicants hereby petition for a two-month extension of time, and authorize the Commissioner to charge the corresponding fee of FOUR HUNDRED AND FIFTY DOLLARS (\$450.00) for the two-month extension of time to Deposit Account 50-1891. Accordingly, a

Applicant(s) Ping Sheng ZHANG and Hai ng CAO
U.S. Serial No.: 09/839,078
Filed : April 20, 2001
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response is now due February 8, 2005, and this Amendment is being timely filed.

Applicants also hereby submit a Request for Continued Examination to continue the prosecution of this application. Applicants hereby authorize the Commissioner to charge the corresponding fee of SEVEN HUNDRED AND NINETY DOLLARS (\$790.00) to Deposit Account 50-1891. A copy of the Request for Continued Examination Transmittal form (PTO/SB/30) is attached herein as **Exhibit A**.

Additionally, Applicants hereby submit a Change of Correspondence Address form to associate the above-identified application with Customer Number 33729. A copy of the Change of Correspondence Address form (PTO/SB/122) is attached herein as **Exhibit B**.

Furthermore, the Attorney Docket No. for this application is incorrectly shown as "29876/37280." Please amend the USPTO records to correctly show the Attorney Docket No. as "746."

Information Disclosure Statement

In accordance with their duty of disclosure under 37 C.F.R. §1.56, Applicants hereby submit an Information Disclosure Statement (IDS) for the Examiner's consideration. A copy of the Information Disclosure Statement (PTO/SB/08A) is attached herein as **Exhibit C**, and a copy of the reference is attached herein as **Exhibit D**.

On **Exhibit C**, the reference listed is as follows:

1. U.S. Patent No. 6,182,413 B1, filed July 27, 1999

In the December 16, 2003 Office Action, the Examiner stated that the IDS citing foreign patent document, Hai LIN, CN

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2438558Y, filed October 8, 2000, did not comply with 37 C.F.R. 1.97, 1.98, and MPEP § 609, because there was not a concise explanation of its relevance in English. In response, Applicants hereby submit, as **Exhibit E**, an English translation of the Abstract of LIN.

Claim amendment fee calculation

	Claims remaining after amendment		Highest No. Previously Paid	Present Extra	Rate	Additional Fee
Total	14	Minus	20	0	X \$50.00	\$0.00
Ind.	2	Minus	3	0	X \$200.00	\$0.00

No additional claims fees are required for filing this Amendment.

Please amend the specification as follows:

Applicant(s) : Ping Sheng ZHANG and Hai Long CAO
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Filed : April 20, 2001
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Amendments to the claims:

Please cancel claims 1-12 without prejudice to Applicants' rights to pursue the subject matters in a future application and add the following new claims:

1-12. (Canceled)

13. (New) A flexible flooring system comprising a plurality of planks, each plank comprising:

(a) a first top layer including a first plurality of strips that are secured together, each of the first plurality of the strips having a grain extending generally in a longitudinal direction of the plank; and

(b) a second bottom layer including a second plurality of strips, each strip having a grain extending generally transversely to the longitudinal direction of the plank,

wherein the second plurality of strips are spaced from one another by gaps having appropriate gap width.

14. (New) The flexible flooring system of claim 13, wherein the second bottom layer comprises at least one tongue on one side configured to mate with at least one groove on one side of another or adjacent plank; and wherein the second bottom layer comprises at least one groove at the other side configured to receive at least one tongue of one side of another or adjacent plank.

15. (New) The flexible flooring system of claim 14, wherein the tongue or groove extends along the length of the side of the plank.

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16. (New) The flexible flooring system of claim 13, wherein the strips are bamboo or wood.
17. (New) The flexible flooring system of claim 13, wherein the second plurality of strips are spaced from one another by gaps having approximately equal gap width.
18. (New) The flexible flooring system of claim 13, wherein the second plurality of strips are spaced from one another by gaps having 1mm gap width.
19. (New) The flexible flooring system of claim 13, wherein the second plurality of strips are spaced from one another by gaps having unequal gap width.
20. (New) The flexible flooring system of claim 13, wherein the second plurality of strips is rough cut.
21. (New) The flexible flooring system of claim 14, wherein the tongue or groove are machined on the second bottom layer.
22. (New) The flexible flooring system of claim 13, wherein the plurality of strips of the first layer are not perpendicular to the strips of the second layer.
23. (New) The flexible flooring system of claim 13, further comprising at least one coat of acrylic urethane, aluminum oxide color or other suitable finishes disposed on multiple surfaces thereof.
24. (New) A flexible flooring system comprising a plurality of planks, each plank comprising:

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(a) a first top layer including a first plurality of strips that are secured together, each of the first plurality of the strips having a grain extending generally in a longitudinal direction of the plank; and

(b) a second bottom layer including a second plurality of strips, each strip having a grain extending generally transversely to the longitudinal direction of the plank, wherein the second plurality of strips are spaced from one another by gaps having appropriate gap width;

wherein the second bottom layer comprises at least one tongue on one side configured to mate with at least one groove on one side of another or adjacent plank; and wherein the second bottom layer comprises at least one groove at the other side configured to receive at least one tongue of one side of another or adjacent plank.

25. (New) The flexible flooring system of claim 24, wherein the tongue or groove extends along the length of the side of the plank.

26. (New) The flexible flooring system of claim 24, wherein the tongue or groove are machined on the second bottom layer.

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REMARK

Claims 1-12 are pending in the Application. By this Amendment, Applicants have canceled claims 1-12 and added new claims 13-26. New claims 13-26 do not contain any new matter. Support for the new claims may be found *inter alia* in the U.S. Patent Application Publication for Zhang, et al., US 2002/0152701 A1, namely:

Claim 13-15:	Abstract, Figures 1 and 4.
Claim 16, 20, 22:	Page 2, paragraph 17.
Claim 17-19:	Page 2, paragraph 16.
Claim 21 and 26:	Page 2, paragraph 19.
Claim 23	Page 2, paragraph 15.
Claim 24	Abstract, Figures 1 and 4.
Claim 25	Figures 1, 2, and 4.

Accordingly, Applicants respectfully request the entry of this Amendment.

The Examiner to whom the application has been assigned has rejected Claims 1-12.

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Claim Rejections - 35 USC § 102(b)

The Examiner rejected claims 1, 2, 4, and 5 under 35 U.S.C. 102(b) as being anticipated by U.S. Pat. No. 5,822,944 issued to Penland, Sr. (hereinafter as "Penland, Sr.").

The Examiner's rationale for the rejections are found on page 2 of the September 8, 2004 Office Action.

In response but without conceding the correctness of the Examiner's position and to expedite the prosecution of this Application, Applicants have canceled claims 1-12 without prejudice. The new claims do not contain the above mentioned issues, thereby rendering this ground of rejection moot.

Penland, Sr. discloses a flooring system "formed by interlocking both the ends and sides of a plurality of mat units." (Penland, Sr., Abstract) Each mat unit includes "two layers of boards". (Penland, Sr., Abstract) The first and second layer contain "end locking tabs extending beyond the edge of the first or second layer and corresponding end locking slots. (Penland, Sr., Abstract)

Applicants' claim 13 recites:

A flexible flooring system comprising a plurality of planks, each plank comprising:

(a) a first top layer including a first plurality of strips that are secured together, each of the first plurality of the strips having a grain extending generally in a longitudinal direction of the plank; and

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(b) a second bottom layer including a second plurality of strips, each strip having a grain extending generally transversely to the longitudinal direction of the plank, wherein the second plurality of strips are spaced from one another by gaps having appropriate gap width.

Penland, Sr. does not teach or disclose a two-layer mat unit where the boards on the bottom layer are placed apart from one another by gaps. The flooring system in Penland, Sr. is formed by interlocking both ends and sides of a plurality of mat units. The end locking tabs and corresponding end locking slots must form a tight fit, without any gaps or spaces between the boards that make up the end locking tabs and the boards that make up the corresponding end locking slots, so that the flooring system will be "strong and sturdy enough to support heavy equipment." (Penland, Sr., Abstract)

In contrast, the bottom layer of Applicants' flooring plank comprises a plurality of strips which are spaced from one another by gaps having appropriate gap width to produce the desired flexibility of the planks. (Page 2, paragraph 16). Increasing the space between the two strips will improve the stability and flatness of the floor covering, if the sub-floor contains irregularities or uneven portions. The appropriate gap width between the strips on the bottom layer, which depends on factors such as the desired flexibility of the flooring planks, the condition of the sub-floor, and the weather pattern of the site of installation, may be readily determined by one of ordinary skill in the art.

In addition, to construct the flooring system as disclosed in Penland, Sr., which contains end locking tabs and corresponding end locking slots, the top boards that make up

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the top layer and the bottom boards that make up the bottom layer of the mat unit must be perpendicular to one another.

In contrast, the strips on top layer and the strips on the bottom layer of Applicants' claimed invention need not be perpendicular for joinder by nature of the tongue and groove which are machined on the second bottom layer.

Accordingly, in light of the new claims and the above responses, Applicants respectfully request the reconsideration and withdrawal of the above ground(s) of rejection.

Claim Rejections - 35 USC § 103(a)

The Examiner rejected:

Claims 3 and 6 under 35 U.S.C. 103(a) as being unpatentable over U.S. Pat. No. 5,822,944 issued to Penland, Sr. in view of U.S. Pat. No. 3,509,234 issued to Burlant;

Claim 7 under 35 U.S.C. 103(a) as being unpatentable over U.S. Pat. No. 5,822,944 issued to Penland, Sr. in view of U.S. Pat. No. 6,291,078 issued to Chen; and

Claims 8-12 under 35 U.S.C. 103(a) as being unpatentable over U.S. Pat. No. 5,822,944 issued to Penland, Sr. in view of U.S. Pat. No. 3,509,234 issued to Burlant and in further view of U.S. Pat. No. 5,671,575 issued to Wu.

In response but without conceding the correctness of the Examiner's position and to expedite the prosecution of this Application, Applicants have canceled claims 1-12 without prejudice. The new claims do not contain the above mentioned issues, thereby rendering this ground of rejection moot.

Applicant(s) : Ping Sheng ZHANG and Hai Ping CAO
U.S. Serial No.: 09/839,078
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Accordingly, Applicants respectfully request the reconsideration and withdrawal of the above ground(s) of rejection.

Conclusion

Applicants respectfully maintain that the rejections and/or objections stated in the September 8, 2004 Final Office Action have been fully addressed. Therefore, this Application is in full compliance with all requirements. Accordingly, Applicants respectfully urge the Examiner to reconsider and withdraw all rejections and/or objections stated in the Non-final Office action and place this Application in condition for allowance.

If a telephone interview would be of assistance in advancing prosecution of the subject application, Applicants' undersigned attorney invites the Examiner to telephone him at the number provided below.

Applicant(s) : Ping Sheng ZHANG and Hai Ping CAO
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No fee other than the ONE THOUSAND TWO HUNDRED AND FORTY DOLLAR (\$1,240.00) fee for the request for continued examination and the two-month extension of time is deemed necessary in connection with the filing of this Amendment. However, if any additional fee is required, authorization is given to charge the amount of any such fee to Deposit Account No. 50-1891.

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on the date shown below.

Albert Wai-Kit Chan 2/8/05
Albert Wai-Kit Chan Date
Reg. No. 36,479

Respectfully submitted,

Albert Wai-Kit Chan /sc

Albert Wai-Kit Chan
Registration No. 36,479
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141-07 20th Avenue
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Tel: (718) 357-8836
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e-mail: kitchanlaw@aol.com

EXHIBIT A

Request for Continued Examination (RCE) Transmittal

Address to:
Mail Stop RCE
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Application Number	09/839,078
Filing Date	April 20, 2001
First Named Inventor	Ping Sheng ZHANG
Art Unit	3635
Examiner Name	Yvonne Michele Horton
Attorney Docket Number	746

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.
Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. See Instruction Sheet for RCEs (not to be submitted to the USPTO) on page 2.

1. **Submission required under 37 CFR 1.114** Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).

a. ☐ Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.

i. ☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____

ii. ☐ Other _____

b. ☒ Enclosed

i. ☒ Amendment/Reply

iii. ☒ Information Disclosure Statement (IDS)

ii. ☐ Affidavit(s)/ Declaration(s)

iv. ☒ Other PTO/SB/122 (Change of Correspondence) _____

2. Miscellaneous

a. ☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of _____ months. (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(j) required)

b. ☒ Other Two-month extension of time _____

3. Fees

The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.

The Director is hereby authorized to charge the following fees, or credit any overpayments, to Deposit Account No. 50-1891. I have enclosed a duplicate copy of this sheet.

i. ☒ RCE fee required under 37 CFR 1.17(e)

ii. ☒ Extension of time fee (37 CFR 1.136 and 1.17)

iii. ☐ Other _____

b. ☐ Check in the amount of \$ _____ enclosed

c. ☐ Payment by credit card (Form PTO-2038 enclosed)

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

Signature	<u>Albert Wai-Kit Chan</u>	Date	February 8, 2005
Name (Print/Type)	Albert Wai-Kit Chan	Registration No.	36,479

CERTIFICATE OF MAILING OR TRANSMISSION

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop RCE, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 or facsimile transmitted to the U.S. Patent and Trademark Office on the date shown below.

Signature	<u>Albert Wai-Kit Chan</u>	Date	February 8, 2005
Name (Print/Type)	Albert Wai-Kit Chan		

This collection of information is required by 37 CFR 1.114. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop RCE, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Application Number	09/839,078
Filing Date	April 20, 2001
First Named Inventor	Ping Sheng ZHANG
Art Unit	3635
Examiner Name	Yvonne Michele Horton
Attorney Docket Number	746

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33729

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I am the:

- ☐ Applicant/Inventor
- ☐ Assignee of record of the entire interest.
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).
- ☒ Attorney or agent of record. Registration Number 36,479
- ☐ Registered practitioner named in the application transmittal letter in an application without an executed oath or declaration. See 37 CFR 1.33(a)(1). Registration Number _____

Signature

*Albert Wai Kit Chan*Typed or Printed
Name

Albert Wai-Kit Chan

Date February 8, 2005

Telephone (718) 357-8836

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.

☒ Total of 1 _____ forms are submitted.

This collection of information is required by 37 CFR 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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EXHIBIT C

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Complete if Known

(Use as many sheets as necessary)

Sheet	1	of	1
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Application Number	09/839,078
Filing Date	April 20, 2001
First Named Inventor	Ping Sheng ZHANG
Art Unit	3635
Examiner Name	Yvonne Michele Horton
Attorney Docket Number	746

[illegible][illegible]

Examiner
Signature

Date
Considered

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). *See Kinde Codes for USPTO Patent Documents at www.uspto.gov or MPEP 901.04. *Enter Office that issued the document (e.g., ST, J, F, etc.). *Enter the Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. *Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. *Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is required to be completed and to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. There will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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EXHIBIT D

(12) **United States Patent**
Magnusson

(10) **Patent No.:** **US 6,182,413 B1**
(45) **Date of Patent:** **Feb. 6, 2001**

(54) **ENGINEERED HARDWOOD FLOORING SYSTEM HAVING ACOUSTIC ATTENUATION CHARACTERISTICS**

(75) **Inventor:** Tryggvi Magnusson, Knislinge (SE)

(73) **Assignee:** Award Hardwood Floors, L.L.P., Wausau, WI (US)

(*) **Notice:** Under 35 U.S.C. 154(b), the term of this patent shall be extended for 0 days.

(21) **Appl. No.:** 09/362,167

(22) **Filed:** Jul. 27, 1999

(51) **Int. Cl.:** E04B 2/08

(52) **U.S. Cl.:** 52/589.1; 52/309.8; 52/592.1

(58) **Field of Search:** 52/309.8, 589.1, 52/592.1, 313; 428/137, 138, 172, 542.2

(56) **References Cited**

U.S. PATENT DOCUMENTS

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QS 3.0 Quiet System Underlayment, Award Hardwood Floors, admitted prior art.

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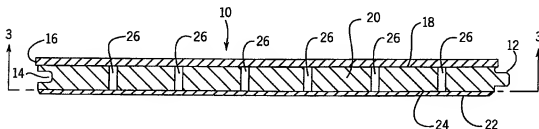
Primary Examiner—Bruce A. Lev

(74) **Attorney, Agent, or Firm**—Andrus, Scales, Starke & Sawall

(57) **ABSTRACT**

An engineered hardwood flooring system includes tongue and groove core planks, each having a hardwood top plate glued to the top surface of the core plank. The hardwood top plate is made by gluing thin strips of hardwood to form a planar top plate which is attached to the core plank. The hardwood top plate is coated with a polyurethane finish or the like to protect the luster and beauty of the hardwood. The core plank includes a plurality of holes extending completely through the core plank from a top surface of the core plank to a bottom surface of the core plank. The holes are spaced apart and arranged in a pattern consisting of alternating staggered rows of holes. The purpose of the holes in the core plank is to attenuate acoustic energy propagating within the core plank, and thereby reduce the level of noise caused when people walk on the floor.

11 Claims, 3 Drawing Sheets



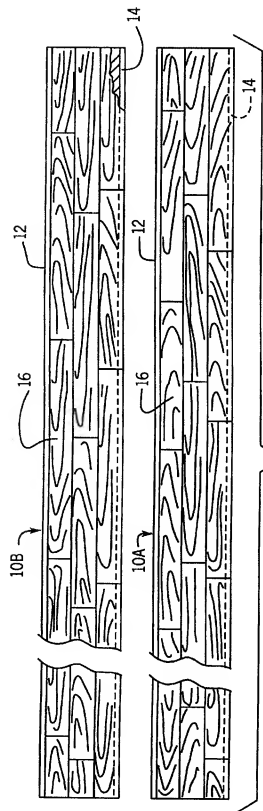


FIG. 1

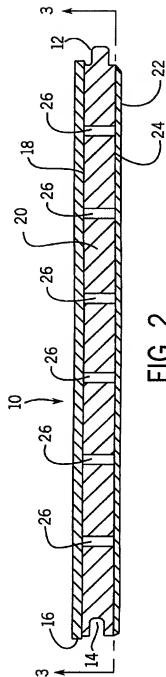


FIG. 2

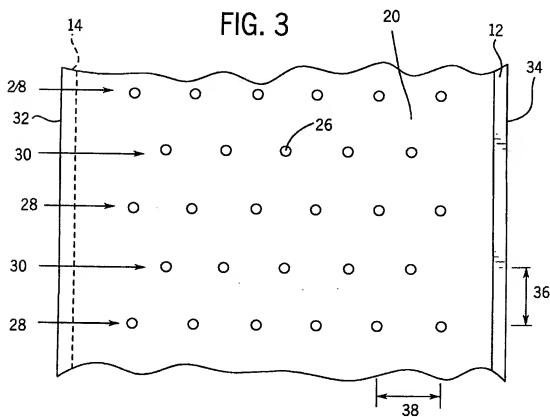
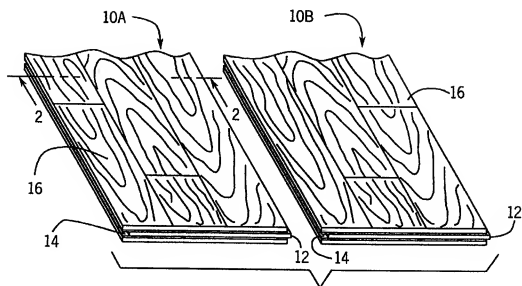


FIG. 4

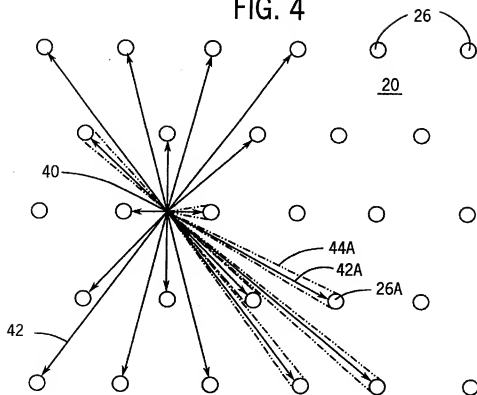
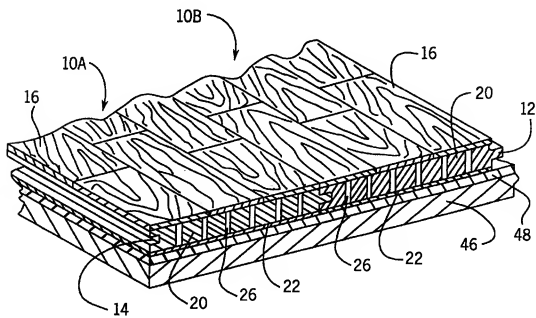


FIG. 5



ENGINEERED HARDWOOD FLOORING SYSTEM HAVING ACOUSTIC ATTENUATION CHARACTERISTICS

FIELD OF INVENTION

The invention relates to engineered hardwood flooring systems. In particular, the invention relates to flooring systems having a hardwood top plate and a core plank which is perforated to muffle or attenuate sound caused by people walking on the floor.

BACKGROUND OF THE INVENTION

Engineered hardwood flooring has a relatively thin hardwood top plate (e.g. about $\frac{1}{4}$ of an inch) glued to a top surface of a core plank. The core plank is typically about six inches wide and about seven or eight feet long. It is typically $\frac{1}{4}$ to $\frac{1}{2}$ inch thick, and normally made of plywood, fiberboard, particle board, lumber board, OSB. The top of the hardwood top plate is coated with a polyurethane or similar finish to protect the luster and beauty of the hardwood. The core plank has tongue and groove construction to facilitate installation. The hardwood top plate is manufactured by gluing and clamping two inch wide hardwood strips to form a planar surface. The hardwood top plate is then glued to a top surface of the core plank. A backing layer (e.g., wood fiber, hardwood, softwood, veneer, paper, etc.) is normally glued to the bottom of the core plank to balance the core and prevent warping. The backing also helps to seal the core plank from moisture, and help maintain structural integrity of the floor.

While plastic laminate floors can be convenient to install, the noise and appearance of repetitive printed wood grain images of such floors is not particularly appealing to many consumers. On the other hand, engineered hardwood flooring provides the luster and beauty of hardwood floors, yet is typically less expensive and more convenient to install than conventional hardwood floors. Engineered hardwood flooring is typically installed to float over the sub-floor, although it can also be attached to the sub-floor. In order to make engineered hardwood floors more comfortable to walk on and quieter, it is known in the art to provide a foam underlayment on the sub-floor before installing the engineered hardwood floor. It has been found that foam underlayments dampen floor vibrations, and reduce decibel level and duration of both low frequency impact noise (such as the sound of walking across the floor) and high frequency room noise. When used on a second story room, the foam underlayment also reduces sound transmission through the floor/ceiling into the room below. While foam underlayments often work well, it is not always practical to use foam underlayment when installing an engineered hardwood floor.

In many applications, it would be desirable for the engineered hardwood flooring plank to have inherent sound attenuation characteristics.

SUMMARY OF THE INVENTION

The invention is engineered hardwood flooring in which the core tongue and groove plank has perforations or holes extending completely through the core plank from a top surface of the plank to a bottom surface of the plank. The perforations or holes are preferably positioned in staggered rows. After acoustic energy propagates through the hardwood top plate into the core, the energy disperses in all directions within the core plank. Inasmuch as the acoustic energy normally has a component propagating laterally in

the core plank, the energy will eventually encounter one of the perforations or holes in the core board. The perforations or holes attenuate the acoustic energy, thereby muffling the sound.

By staggering the perforations or holes as shown in the drawings, a vast majority of acoustic energy propagating through the core plank will intersect a perforation or hole within a relatively short distance, thus effectively attenuating the energy before it is able to return into the room as sound. In order to be effective, it is important that the perforations or holes extend completely through the core plank from its top surface to its bottom surface. Otherwise, substantial amounts of acoustic energy will be able to propagate within the core plank for substantial distances without encountering a perforation or hole to attenuate the energy.

Other features of the invention may be apparent to those skilled in the art upon inspecting the drawings and the following description thereof.

BRIEF DESCRIPTION OF THE DRAWING

FIG. 1 is a top plan view of planks of engineered hardwood flooring constructed in accordance with the invention.

FIG. 1A is a partial perspective view of the planks shown in FIG. 1.

FIG. 2 is a cross-sectional view of a plank of engineered hardwood flooring showing a row of acoustic attenuating holes, each passing completely through the core section of the long plank.

FIG. 3 is a partial top planar view of a core plank used in accordance with the invention which illustrates the preferred pattern of acoustic energy attenuating holes through the core plank.

FIG. 4 is a schematic view illustrating attenuation laterally propagating components of acoustic energy within the core plank.

FIG. 5 is a schematic view illustrating the preferred method of installing long plank engineered hardwood flooring.

DETAILED DESCRIPTION OF THE DRAWINGS

FIGS. 1 and 1A show two planks 10a, 10b of engineered hardwood flooring. The planks 10a, 10b are typically about 7 inches wide and 7 feet long. The planks 10a, 10b have tongue 12 and groove 14 construction to facilitate convenient installation. It is desirable that the planks 10a, 10b have uniform board height and tight plank-to-plank fit along the tongues 12 and grooves 14 to eliminate raised edges when the floor is installed. The planks 10a, 10b are typically sold in boxes containing six to eight boards which would normally be sufficient to cover 22-28 square feet of flooring.

Referring now to FIGS. 1, 1A and 2, each plank of engineered hardwood flooring 10, 10a, 10b is manufactured by gluing a hardwood top plate 16 on a top surface 18 of a core plank 20, and a hardwood backer 22 to a bottom surface 24 of the core plank 20. The hardwood plate 16 is manufactured from hardwood blocks which are cut and sanded to a desired size, preferably approximately $\frac{1}{4}$ inch thick, 2 and $\frac{1}{2}$ inches wide, and 14 inches in length. The hardwood strips are preferably plain sawn out of the length of hardwood blocks in board fashion, rather than peeled from the circumference of the log which is known as veneer fashion. The thin hardwood strips are placed in a planar array, and glue is applied to the edges of adjacent thin hardwood strips.

The thin hardwood strips are then compressed to form a hardwood plate, which provides a planar hardwood top surface for the engineered hardwood flooring plank 10. The hardwood plate 16 can be made of any type of hardwoods typically used on floors, such as birch, ash, maple, oak, walnut, hickory, jatoba, cherry, etc. When making the hardwood plate 16, it is important to accurately control the appearance and smoothness of the hardwood plate 16 inasmuch as the hardwood top plate 16 is exposed when the flooring 10 is in use.

A coating or finish is preferably applied to the top surface of the hardwood top plate 16 in order to protect the luster and beauty of the floor 10. The preferred finish and method of applying the same is disclosed in copending U.S. patent application Ser. No. 09/190,683, entitled "Multi-Layered, Ceramic-Based Hardwood Finish" filed on Nov. 12, 1998. The preferred finish is a ceramic-based, polyurethane, UV-hardened, clear finish which has a medium gloss appearance. One advantage of engineered hardwood floors compared to plastic laminate floors is that the top hardwood plate 16 can be sanded and refinished if necessary or desired.

The core plank 20 preferably consists of soft wood or fiberboard cut into boards which are approximately 7/8 inches wide, 1/4 to 1/2 inch high, and 7 feet long. The material of the core plank 20 is preferably medium density fiberboard or lumber board. Alternatively, the core plank 20 can be made of high density fiber board, particle board, OSB, or even suitable plastic materials. The backer 22 is preferably a relatively thin piece of rough cut hardwood (e.g. about 3/8 of an inch thick) which is glued to the bottom surface 24 of the core plank 20, although other backing materials can be used such as softwood, wood fiber, veneer, paper, etc. When using hardwood, the hardwood backer 22 for each plank 10 is preferably a single piece and not constructed from a plurality of hardwood strips as is the hardwood top plate 16. The purpose of the backer 22 is to balance the floor plank 10 to prevent warping, and also to provide structural stability to the floor plank 10. The hardwood top plate 16 is preferably glued to essentially the entire top surface 18 of the core plank 20 from edge to edge; and, the backer 22 is preferably glued to essentially the entire bottom surface 24 of the core plank 20 from edge to edge. If the core plank is made of soft wood such as lumber board or plywood, it is preferred that the direction of the grain in the core plank 20 be placed perpendicular to the direction of the grain of the hardwood top plate 16 and the hardwood backer 22. After the hardwood top plate 16 and the backer 22 are attached to the core plank 20, the tongue 12 and groove 14 are machined into lateral edges 32, 34 of the core plank 20. The hardwood top plate 16 is then sanded and cleaned for sealing and finishing.

In accordance with the invention, the core plank 20 contains a plurality of perforations 26 or holes 26 that extend completely through the core plank 20 from the top surface 18 of the core plank 20 to the bottom surface 24 of the core plank 20. As shown best in FIG. 3, the holes 26 are preferably cylindrical, and preferably spaced-apart and arranged in a pattern effective for attenuating acoustic energy propagating in the core plank 20. The diameter of the cylindrical holes 26 should be in the range between 1/8 of an inch to 1/4 of an inch, and is preferably about 1/8 of an inch.

The acoustic attenuation holes 26 are preferably arranged in alternating staggered rows such as rows 28, 30. The rows designated by reference numeral 28 in FIG. 3 preferably consists of six holes 26 that are core plank 20. The holes 26 in the core plank 20 are spaced apart from adjacent holes 26 in the row 28 equidistant from one another, preferably

about 1 inch. The rows designated by reference numeral 30 also contains holes 26 that are preferably aligned perpendicularly between the lateral edges 32, 34 of the core plank 20. The rows 30 of holes 26 preferably consist of five acoustic attenuating holes 26. The location of the holes 26 in rows 30 is staggered with respect to the holes in row 28, preferably symmetrically. It is preferred that the distance between adjacent staggered rows 28, 30 be spaced apart a distance 36 that is essentially the same distance 38 as adjacent holes 26 within each row 28, 30. It has been found that the above-described pattern is particularly effective in attenuating acoustic energy propagating within the core plank 20 and reducing noise levels when people walk on the installed floor 10.

FIG. 4 illustrates the manner in which the holes 26 attenuate acoustic energy propagating within the core plank 20. In FIG. 4, reference number 40 refers to a location in the core plank 20 which is the source of acoustic energy, such as the location in the core plank 20 underneath the location in which a person's shoe impacts the floor 10. Acoustic energy from the impact is transmitted in part through the hardwood top plate 16 and into the core plank 20. FIG. 4 shows a plurality of vectors 42 emanating from source 40. The vectors 42 represent lateral components of acoustic energy propagating within the core plank 20. Note that the acoustic energy will disperse from the source 40 in all lateral directions. Referring in particular to acoustic attenuation hole 26a in FIG. 4, acoustic energy propagating from the source 40 towards the hole 26a in the direction of vector 42a is represented by shaded zone 44a. The energy propagating from acoustic source 40 within zone 44a will intersect hole 26a and be attenuated by hole 26a. Inasmuch as acoustic energy propagating laterally from acoustic source 40 is destined to intersect with one of a large number of holes 26 within relatively close proximity of the acoustic source 40, a majority of the acoustic energy transmitted to the core plank 20 is attenuated or muffled within the core plank 26, thereby reducing acoustic transmission to the surrounding environment and sound levels when a person walks on the floor 10. Note that it is particularly important that the holes 26 extend completely through the core plank 12 from its top surface 18 to its bottom surface 24 in order to prevent acoustic energy from bypassing the acoustic attenuation holes 26 when propagating laterally (or laterally in part) within the core plank 20.

FIG. 5 illustrates the preferred method of installing engineered hardwood flooring planks 10a, 10b. Preferably, the planks 10a, 10b are installed over a sub-floor 46 with a foam underlayment layer 48 therebetween. The foam underlayment 48 further facilitates attenuation of acoustic energy, and also cushions the floor 10a, 10b on the sub-floor 46. The foam underlayment is preferably about 3 millimeters thick, and can accommodate small irregularities in the sub-floor 46. The foam underlayment can also help protect the floor 10a, 10b from sub-floor moisture.

The invention has been described above in connection with a preferred embodiment of the invention, however, the invention should not be limited thereto. The scope of the invention should be interpreted by referring to the following claims which particularly point out and distinctly claim the invention.

I claim:

1. An engineered hardwood flooring system comprising a plurality of planks, each plank comprising:
 - a core plank having tongue and groove construction along its lateral edges, the core plank having a top surface and a bottom surface and containing a plurality of holes

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extending completely through the core plank from the top surface to the bottom surface, said holes being arranged in a pattern for attenuating acoustic energy propagating in the core plank;

a hardwood top plate attached to the top surface of the core plank, the hardwood top plate comprising strips of thin hardwood glued together to form a planar hardwood plate; and

a backing layer attached to the bottom surface of the core plank; and

wherein the engineered hardwood flooring system further comprises a foam underlayment which is located underneath the backing layer and which cushions the planks when the engineered hardwood flooring system is installed over a sub-floor.

2. The invention as recited in claim 1 wherein the pattern of holes consist of spaced-apart holes arranged in alternating staggered rows through the core plank.

3. The invention as recited in claim 2 wherein the spaced-apart holes in each row are equally spaced from one on another.

4. The invention as recited in claim 3 wherein adjacent holes in each row are aligned perpendicularly to lateral edges of the core plank and are spaced apart from each other essentially the same distance than adjacent staggered rows are spaced apart from each other.

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5. The invention as recited in claim 2 wherein the pattern of holes includes:

a first type of row of holes which are aligned perpendicularly between lateral edges of the core plank, said first type of row of holes consisting of five holes; and

a second type of row of holes which are aligned perpendicularly between lateral edges of the core plank, said second type of row of holes consisting of six holes.

6. The invention as recited in claim 1 wherein the core plank is medium density fiberboard.

7. The invention as recited in claim 1 wherein the core plank is lumber board.

8. The invention as recited in claim 1 wherein the thickness of the hardwood top plate is within the range of $\frac{1}{2}$ of an inch to $\frac{3}{4}$ of an inch.

9. The invention as recited in claim 1 wherein each of the holes is a cylindrical hole.

10. The invention as recited in claim 9 wherein the diameter of the cylindrical holes is in the range between $\frac{3}{16}$ of an inch to $\frac{1}{4}$ of an inch.

11. The invention as recited in claim 1 wherein a protective coating is applied on the hardwood top plate to protect the floor.

* * * * *

EXHIBIT E

The State Intellectual Property Office of the People's Republic of China

Description of patent for utility model

Announced day: Jul.11,2001

Announced No:CN 2438558Y

Date of filing: Oct.8,2000 Date of issue: Jun.16,2001

Filing number: 00254251.1

Patentee: Hangzhou Dazhuang Floor Co.,Ltd.

Address: YouCheQiao LinPu XiaoShan Hangzhou China

Post code: 311251

Designer: Lin Hai & Xu Xufeng

Claims (one page) Description (two pages) Drawings (one page)

Name for utility model: TWO-PLY FLOORING HAVING A CROSS-GRAIN BOTTOM PLY

Abstract:

A 2-layer staggered combined floor covering consists of 2 layers. The combined floor covering is combined from the surface board and bottom board by an adhesive layer. The surface board and bottom board form an angle of $45^{\circ} - 90^{\circ}$ staggering to each other according to the fiber direction. The said bottom board is of strip type. The strips are parallel to each other and have a joint between them. The said combined floor covering has tongue and groove at its periphery for mortise joint. Because of application of the above-mentioned structure, this applied utility model has the following advantages: simple technology and high utilization rate of raw materials; overcome the disadvantages of difficult supply of raw materials and poor stability while the multi-layer combined floor covering has the disadvantages of waste of materials and complicated technology.

APPENDIX 3

TRANSMISSION VERIFICATION REPORT

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FROM : ALBERT WAI-KIT CHAN

DOCKET : Ping Sheng ZHANG and Hai Ping CAO, **TWO-PLY
 FLOORING HAVING A CROSS-GRAIN BOTTOM
 PLY**, U.S. Serial No. 09/839,078, Filed April 20, 2001,
 claiming priority of Chinese Patent Application No.
 00254152.1, filed October 8, 2000 - OUR DKT. #746

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FROM ALBERT WAI-KIT CHAN*

DOCKET Ping Sheng ZHANG and Hai Ping CAO. TWO-PLY
FLOORING HAVING A CROSS-GRAIN BOTTOM
PLY, U.S. Serial No. 09/839,078, Filed April 20, 2001,
claiming priority of Chinese Patent Application No.
90234132.1, filed October 8, 2000 - OUR DKT. #746

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MISCELL

AMENDMENT IN RESPONSE TO SEPTEMBER 8, 2004 OFFICE ACTION,
PETITION FOR TWO-MONTH EXTENSION OF TIME, REQUEST FOR
CONTINUED EXAMINATION, SUBMISSION OF CHANGE OF
CORRESPONDENCE ADDRESS FORM TO ASSOCIATE THE ABOVE-
IDENTIFIED APPLICATION WITH CUSTOMER NUMBER, REQUEST FOR
CORRECTION OF ATTORNEY DOCKET NO., AND INFORMATION
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